

THREE DIMENSIONAL ELECTROASSEMBLY

ABSTRACT OF THE DISCLOSURE

5 A process for forming a three dimensional
decorative pattern on a product substrate uses
electrostatic forces placed on dielectric fibers and
electrostatic latent images written either onto an
intended product substrate or onto a transfer surface, or
10 both, to assemble three dimensional composite structures
of fibers or rod-shaped components in a matrix of a
second dielectric material. The fibers or other rod-
shaped components may extend from the matrix to form a
surface that is either plush or relatively smooth. The
15 transfer surface may be a photoconductor with an
electrostatic latent image that is written with
controlled light or it can be made of a dielectric
material and be rigid and conforming to the intended
product substrate or flexible and made to conform to the
intended product substrate.

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